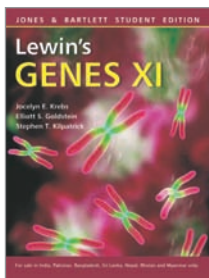


BIOSCIENCE

2018 CATALOGUE



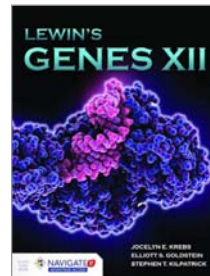
Lewin's Genes XI

Krebs, Goldstein & Kilpatrick

Contents: Part 1: Genes & Chromosomes • Genes are DNA • Genes Encode RNAs & Polypeptides • Methods in Molecular

Biology & Genetic Engineering • The Interrupted Gene • The Content of the Genome • Genome Sequences and Gene Numbers • Clusters & Repeats • Genome Evolution • Chromosomes • Chromatin • Part 2: DNA Replication and Recombination • Replication is Connected to the Cell Cycle • The Replicon: Initiation of Replication • DNA Replication • Extrachromosomal Replicons • Homologous & Site-Specific Recombination • Repair Systems • Transposable Elements and Retroviruses • Somatic Recombination and Hypermutation in the Immune System • Part 3: Transcription & Posttranscriptional Mechanisms • Prokaryotic Transcription • Eukaryotic Transcription • RNA Splicing & Processing • mRNA Stability & Localization • Catalytic RNA • Translation • Using the Genetic Code • Part 4: Gene Regulation • The Operon • Phage Strategies • Eukaryotic Transcription Regulation • Epigenetic Effects are Inherited • Regulatory RNA • Glossary • Index

ISBN: 9789380853710 • PB • 968pp • 2014 • ₹2895.00



Lewin's Genes XII

Krebs, Goldstein & Kilpatrick

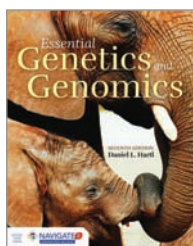
Now in its *Twelfth Edition*, this classic text continues to lead with new information and cutting-edge developments,

covering gene structure, sequencing, organization, and expression. No other text offers a broader understanding of this exciting and vital science or does so with higher quality art and illustrations. *Lewin's GENES XII* continues to be the clear choice for molecular biology and genetics.

Features & Benefits:

- NEW - contains expanded coverage of epigenetics and additional research studies and data
- Revised art program offers a stunning interior design with many new figures, some reflecting new developments in the field, particularly in the topics of chromatin structure and function, epigenetics, and regulation by noncoding and microRNAs in eukaryotes
- High-quality illustrations and photographs engage readers and unlock complex topics and molecular processes

ISBN: 9781284104493 • HB • 838pp • 2018 • \$105.00



Essential Genetics and Genomics, 7/e

Daniel L. Hartl

The *Seventh Edition* presents carefully chosen topics that provide a solid foundation to the basic

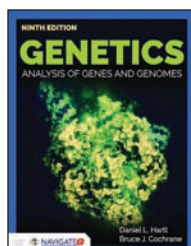
understanding of gene mutation, expression, and regulation. It goes on to discuss the development and progression of genetics as a field of study within a societal and historical context. The *Seventh Edition* includes new learning objectives within each chapter which helps students identify what they should know as a result of their studying and highlights the skills they should acquire through various practice problems.

Key Features: Covers the fundamentals of genetics, including gene mutation, expression, and regulation, from the perspective of genomics

- Learning Objectives added to the beginning of each chapter to guide student's focus
- End-of-chapter material offers ample practice to apply concepts and understand key principles (*Concepts in Action: Problems for Solution, Learning Outcomes, Issues and Ideas, and Solutions: Step-by-Step*)

Contents: The Genetic Code of Genes and Genomes • Transmission Genetics: Heritage from Mendel • The Chromosomal Basis of Heredity • Gene Linkage and Genetic Mapping • Human Chromosomes and Chromosome Behavior • DNA Structure, Replication, and Manipulation • The Genetics of Bacteria and Their Viruses • The Molecular Genetics of Gene Expression • Molecular Mechanisms of Gene Regulation • Genomics, Proteomics, and Genetic Engineering • The Genetic Control of Development • Molecular Mechanisms of Mutation and DNA Repair • Molecular Genetics of the Cell Cycle and Cancer • Molecular Evolution and Population Genetics • The Genetic Basis of Complex Traits • Appendix A: Answers to Even-Numbered Problems • Appendix B: Word Roots, Prefixes, Suffixes, and Combining Forms

ISBN: 9781284152456 • PB • 656pp • 2020 • Forthcoming



Genetics, 9/e

Analysis of Genes and Genomes

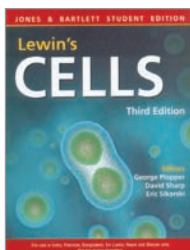
Daniel L. Hartl & Bruce J. Cochran

Genetics: Analysis of Genes and Genomes is a resource uniquely suited for learning

and applying genetics to our world. Its DNA first presentation frames the discussion of genetics in modern terms, which provides the user the context to then understand its Mendelian history. *Genetics* continues to treat transmission genetics, molecular genetics, and evolutionary genetics as fully integrated subjects and provides students with an unprecedented understanding of the basic process of gene transmission, mutation, expression, and regulation. A new unit structure with self-contained chapters provides the flexibility to fit any course design, whether it be Mendel-early, Chromosome-early, or a Genome-first approach. The dynamism of genetics is also perfectly captured, as coverage of technological advances is woven together with ethical controversies.

Contents: Unit I: Defining and Working with GENES • Genes, Genomes and Genetic Analysis • DNA Structure and Genetic Variation • Unit II: Transmission Genetics • Transmission Genetics: The Principle of Segregation • The Chromosomal Basis of Inheritance • Genetic Linkage and Chromosome Mapping • Human Karyotypes and Chromosome Behavior • The Genetics of Complex Characters • Genetics of the Bacteria and their Viruses • Unit III: Organization and Replication of Chromosomes and DNA • Molecular Organization of Chromosomes and Genomes • DNA Replication and Sequencing • Mutation, Repair and Recombination • Unit IV: Gene Expression • Molecular Biology of Gene Expression • Molecular Mechanisms of Gene Regulation • Manipulating Genes and Genomes • Genetic Control of Development • The Genetics of Cancer • Unit V: Variation • Mitochondrial DNA and Extranuclear Inheritance • Genetics of Populations • Molecular and Human Evolutionary Genetics

ISBN: 9781284122930 • PB • 830pp • 2019 • \$85.00



Lewin's Cells, 3/e

Plopper, Sharp & Sikorski

This Edition includes expanded chapters on Nuclear Structure and Transport, Chromatin and Chromosomes, Apoptosis, Principles of Cell Signaling,

The Extracellular Matrix and Cell Adhesion, Plant Cell Biology and more.

Contents: Part 1: Introduction • What is a Cell? • Bioenergetics and Cellular Metabolism • DNA Replication, Repair and Recombination • Gene Expression and Regulation • Protein Structure and Function • Part 2: Membranes and Transport Mechanisms • Transport of Ions and Small Molecules Across Membranes • Membrane Targeting of Proteins • Protein Trafficking Between Membranes • Part 3: The Nucleus • Nuclear Structure and Transport • Chromatin and Chromosomes • Part 4: The Cytoskeleton • Microtubules • Actin • Intermediate Filaments • Part 5: Cell Division, Apoptosis and Cancer • Mitosis • Cell Cycle Regulation • Apoptosis • Cancer: Principles and Overview • Part 6: Cell Communication • Principles of Cell Signaling • The Extracellular Matrix and Cell Adhesion • Part 7: Prokaryotic and Plant Cells • Prokaryotic Cell Biology • Plant Cell Biology

ISBN: 9789380853888 • PB • 1080pp • 2015 • ₹2995.00



Principles of Cell Biology, 2/e

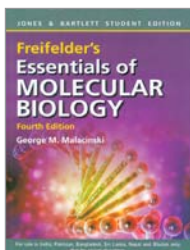
George Plopper

Written for undergraduate cell biology courses, *Principles of Cell Biology, Second Edition* provides students with the formula

for understanding the fundamental concepts of cell biology. This practical text focuses on the underlying principles that illustrate both how cells function as well as how we study them. It identifies 10 specific principles of cell biology and devotes a separate chapter to illustrate each.

Contents: What is a Cell? • Nucleic Acids • Proteins and Polypeptides • Phospholipids and Membrane Structure • The Cytoskeleton and Cellular Architecture • The Extracellular Matrix and Cell Junctions • The Nucleus and DNA Replication • Protein Synthesis and Sorting • The Endomembrane System and Membrane Trafficking • Cellular Metabolism and Energy Storage • Signal Transduction and Cellular Communication • Control of Gene Expression • The Birth and Death of Cells • Tissues

ISBN: 9781284047608 • PB • 566pp • 2016 • \$80.00



Freifelder's Essentials of Molecular Biology, 4/e

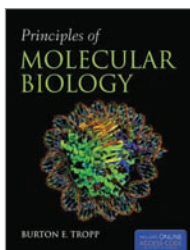
George M. Malacinski

Freifelder's Essentials of Molecular Biology, Fourth Edition focuses on the fundamental aspects of molecular structure and function by reviewing key features, and along the way, capsulizing them as a series of concise concepts. Thus, students are encouraged to place the essential knowledge of molecular biology into broad contexts and thereby

develop both academic and personal meaning for this discipline. The book is organized into a series of modules that provides instructors with an opportunity to scale the treatment of various topics up or down, depending on the level of the students and the overall curriculum format.

Contents: Part 1: The Structure of Proteins, Nucleic Acids, and Macromolecular Complexes • Part 2: Function of Macromolecules • Part 3: Coordination of Macromolecular Function in Cells • Part 4: Experimental Manipulation of Macromolecules

ISBN: 9789384323059 • PB • 512pp • 2015 • ₹595.00



Principles of Molecular Biology

Burton E. Tropp

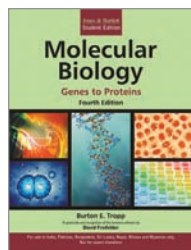
The book discusses what molecular biology is and how it relates to applications in "real life" with examples pulled from medicine and

industry.

Key Features: Difficult or complicated concepts are called-out in boxes to further explain and simplify • Special Topic boxes throughout focus on applications in medicine and technology • An end-of-chapter study guide includes questions for review and discussion

Contents: Introduction to Molecular Biology • Protein Structure and Function • Nucleic Acid Structure • Molecular Biology Technology • Chromosomes • Genetic Analysis in Molecular Biology • Viruses in Molecular Biology • DNA Replication • DNA Damage and Repair • Double Strand Break Repair and Homologous Recombination • Transposable Elements • Bacterial Transcription and Its Regulation • Eukaryotic Transcription • RNA Polymerase II: Cotranscriptional and Posttranscriptional Processes • Small Silencing RNAs • Protein Synthesis

ISBN: 9781449689179 • PB • 752pp • 2014 • \$81.50



Molecular Biology, 4/e

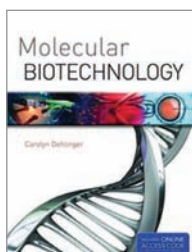
Genes to Proteins

Burton E. Tropp

Contents: Introduction to Molecular Biology • Section I: Protein Structure & Function • Protein

Structure • Protein Function • Section II: Nucleic Acids & Nucleoproteins • Nucleic Acid Structure • Techniques in Molecular Biology • Chromosome Structure • Section III: Genetics & Virology • Genetic Analysis in Molecular Biology • Viruses in Molecular Biology • Section IV: DNA Metabolism • DNA Replication in Bacteria • DNA Replication in Eukaryotes & the Archaea • DNA Damage • DNA Repair • Recombination • Transposons & Other Mobile Elements • Section V: RNA Metabolism • Bacterial RNA Polymerase • Regulation of Bacterial Gene Transcription • RNA Polymerase II: Basal Transcription • RNA Polymerase II: Regulation • RNA Polymerase II: Cotranscriptional & Posttranscriptional Processes • RNA Polymerases I & III & Organellar RNA Polymerases • Small Silencing RNAs • Protein Synthesis • Section VI: Protein Synthesis: The Genetic Code • Protein Synthesis: The Ribosome

ISBN: 9789380853499 • PB • 1136pp • 2012 • ₹1895.00



Molecular Biotechnology

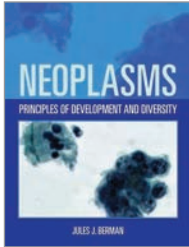
Carolyn A. Dehlinger

Provides a holistic, comprehensive view of molecular biotechnology that makes it ideally suited for undergraduate majors in

molecular biotechnology and biomedical sciences. *Molecular Biotechnology* covers major discoveries, regulation of the biotechnology industry, and significant innovations. A strong emphasis on careers in molecular biotechnology, profiles of major projects and researchers, and expansive discussions of bioethical concerns and current research make it an engaging text.

Contents: The Emergence of Molecular Biotechnology • The Molecular Biotechnology Industry Today • Governmental Regulation of Molecular Biotechnology • Bioinformatics: Genomics, Proteomics, and Phenomics • Industrial Biotechnology • Life Sciences and Healthcare • Environmental Biotechnology and Conservation • Agriculture and Food Production • Forensics and Biodefense • Evo Devo: The Biotechnology of Evolution and Development • The Biotechnology of Anthropology • The Future of Biotechnology

ISBN: 9781284031409 • PB • 306pp • 2016 • \$74.50



Neoplasms
Principles of
Development and
Diversity
Jules J. Berman

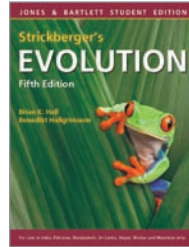
This unique text is devoted to the full range of neoplastic properties exhibited by the

comprehensive collection of human neoplasms. Like no other book of its kind, it approaches cancer biology by surveying the diversity of neoplasms and by building a classification of neoplasms based on an understanding of the cellular options for tumor development. By grouping neoplasms into a comprehensive classification, we can develop class-specific methods to prevent, detect, and treat cancers.

The book is divided into three broad units: speciation, classification and eradication. In the process of developing a classification for neoplasms, dozens of the fundamental questions in neoplastic development are asked and answered. *Neoplasms* provides readers with a fascinating and enjoyable way to learn the otherwise arcane and dense subject of human tumor diversity.

Contents: Part I: Speciation • Part II: Classification • Part III: Cancer Research & the End of Neoplasms

ISBN: 9780763755706 • PB • 430pp • 2009 • \$78.50



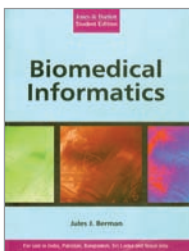
**Strickberger's
Evolution, 5/e**
Brian K. Hall &
Benedikt Hallgrímsson

Now with a full-colour design and art program, the *Fifth Edition of Strickberger's Evolution* is updated with

the latest data and reports from the field. The original scope and theme of this popular text remains as it continues to present an overview of prevailing evidence and theories about evolution by discussing how the world and its organisms arose and changed over time. Boxed features concentrating on modern and exciting research in the field are included at the end of most chapters.

Contents: Evolution and Species • The First Ten Billion years: 13.7 - 3.7 Bya • From Molecules to Organisms: 3.7 – 1.5 Bya • Theories of Evolution and Heredity • Natural Selection in Action • Sources of Variation in Individuals and in Populations • Populations, Speciation and Extinctions • Human Origins, Evolution and Influence

ISBN: 9789380853789 • PB • 672pp • 2014 • ₹1695.00



**Biomedical
Informatics**
Jules J. Berman

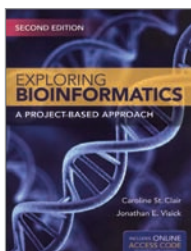
It teaches the reader how the Perl language is used in biomedical informatics & provides examples of short Perl scripts that can

be applied in the biological research & healthcare settings.

Contents: What are Biomedical Data & What Do We Do With Them? • The Data of Biomedical Informatics • Confidential Biomedical Data • Standards for Biomedical Data • Just Enough

Programming • Programming Common Biomedical Informatics Tasks • Biomedical Nomenclatures • Misbehaving Text: Dealing with Poorly Written Medical Text • Autocoding Unstructured Data (Narrative Text) • Computational Methods for De-identification & Data Scrubbing • Cryptography in Biomedical Informatics • Describing Data with Metadata • Simplifying Complex Data with Classifications & Ontologies • Clinical Trials: The Informatician Lives in a Statistical World • Distributed Computing • A Practical Approach to Ethics for Biomedical Informaticians • Grantsmanship for Biomedical Informaticians

ISBN: 9789380108179 • PB • 478pp • 2010 • ₹395.00



Exploring Bioinformatics, 2/e

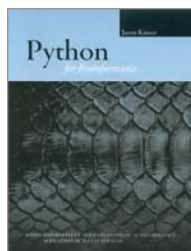
A Project-Based Approach

Caroline St. Clair & Jonathan Visick

Exploring Bioinformatics: A Project-Based Approach, Second Edition is intended for an introductory course in bioinformatics at the undergraduate level. Through hands-on projects, students are introduced to current biological problems and then explore and develop bioinformatic solutions to these issues. Each chapter presents a key problem, provides basic biological concepts, introduces computational techniques to address the problem, and guides students through the use of existing web-based tools and software solutions. This progression prepares students to tackle the On-Your-Own Project, where they develop their own software solutions. Topics such as antibiotic resistance, genetic disease, and genome sequencing provide context and relevance to capture student interest.

Contents: Bioinformatics and Genomic Data: Investigating a Complex Genetic Disease • Computational Manipulation of DNA: Genetic Screening for Disease Alleles • Sequence Alignment: Investigating an Influenza Outbreak • Database Searching & Multiple Alignment: Investigating Antibiotic Resistance • Substitution Matrices & Protein Alignments: Virulence Factors in *E. coli* • Distance Measurement in Molecular Phylogenetics: Evolution of Mammals • Tree Building in Molecular Phylogenetics: The Three Domains of Life • DNA Sequencing: Identification of Novel Viral Pathogens • Sequence-Based Gene Prediction: Annotation of a Resistance Plasmid • Advanced Gene Prediction: Identification of an Influenza Resistance Gene • Protein Structure Prediction & Analysis: Rational Drug Design • Nucleic Acid Structure Prediction: PCR & RNAi • Appendix: Introduction to Programming

ISBN: 9781284034240 • PB • 300pp • 2015 • \$82.00



Python for Bioinformatics

Jason Kinser

Python for Bioinformatics provides a clear introduction to the Python programming language and instructs beginners

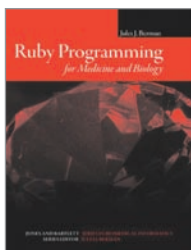
on the development of simple programming exercises. Ideal for the upper-level undergraduate and graduate courses, as well as those hoping to expand their knowledge of programming for bioinformatics, Kinser's text emphasizes the proper Python syntax and methodologies.

The text is divided into three complete sections; the first provides an explanation of general Python programming, the second includes a detailed discussion of the Python tools typically used in bioinformatics including clustering, associative memories, and mathematical analysis techniques, and the third section demonstrates how these tools are implemented through numerous applications.

Key Features: A flexible design allows individuals to pick and choose special topics of interest to meet specific course needs • The programs provided in the text replicate current research in bioinformatics • Includes numerous real-world application and examples throughout

Contents: Introduction • NumPy and SciPy • Image Manipulation • The Akando and Dancer Modules • Statistics • Parsing DNA Data Files • Sequence Alignment • Dynamic Programming • Tandem Repeats • Hidden Markov Models • Genetic Algorithms • Multiple Sequence Alignment • Gapped Alignments • Trees • Text Mining • Measuring Complexity • Clustering • Self-Organizing Maps • Principal Component Analysis • Species Identification • Fourier Transforms • Correlations • Numerical Sequence Alignment • Gene Expression Array Files • Spot Finding and Measurement • Spreadsheet Arrays and Data Displays • Applications with Expression Arrays • Index

ISBN: 9780763751869 • PB • 418pp • 2009 • \$71.00



Ruby Programming for Medicine and Biology

Jules J. Berman

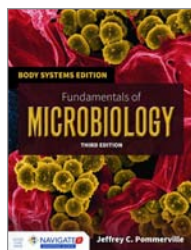
Ruby Programming for Medicine and Biology opens

with three chapters of Ruby language instruction followed by discussions of 100 ruby scripts covering the most common computational tasks in the field of biomedicine.

With helpful explanations of how scripts work, and how they might be implemented in real-world situations, readers will become familiar with this free, open source, object-oriented programming language that is quickly gaining momentum within the bioinformatics community.

Contents: Overview of the Ruby Language (Level 1) • Survey of Ruby Classes & the Ruby Standard Library (Level 1) • Object Orientation in Ruby (Level 2) • Ruby Extensions & Standard Libraries (Level 2) • Biomedical Data Files Used in Later Chapters (Level 1) • Using Ruby Strings, Hashes, Arrays, Files & Directories (Level 1) • Pattern Searching with Regular Expressions (Level 1) • File/Dataset Transformations (Level 1) • Indexing Text (Level 1) • Searching & Mining Data (Level 1) • Scrubbing Confidential Medical Data (Level 1) • Autocoding Biomedical Data Using Nomenclatures (Level 3) • Some Mathematical & Statistical Methods (Level 2) • Cryptography & Deidentification (Level 2) • Common Gateway Interface, CGI (Level 4) • Enter Ruby on Rails (Level 4) • The Bioinformatics Library, Bio & Ruby (Level 3) • Ruby & RDF (Level 3) • Ruby & Biological Classifications (Level 3) • Book Summary (Level 3) • Epilogue • References (Commented) • Appendix • Glossary • List of Lists • Index

ISBN: 9780763750909 • PB • 378pp • 2008 • \$71.00



Fundamentals of Microbiology, 3/e

Body Systems Edition

Jeffrey C. Pommerville

Ideal for health science and nursing students,

Fundamentals of Microbiology: Body Systems Edition, Third Edition retains the engaging, student-friendly style and active learning approach for which award-winning author and educator Jeffrey Pommerville is known.

Contents: Part 1: Foundations of Microbiology • Microbiology: Then and Now • The Chemical Building Blocks of Life • Concepts and Tools for Studying Microorganisms • Structure of Bacterial and Archaeal Cells • Microbial Growth and Nutrition • Microbial Metabolism • Part 2: The Genetics of Microorganisms • Microbial Genetics • Gene Transfer, Genetic Engineering, and Genomics • Part 3: The Control of Microorganisms • Control of Microorganisms: Physical and Chemical Methods • Antimicrobial Drugs and Superbugs • Part 4: A Survey of the Microbial World • Microbial Systematics and the Domains Bacteria and Archaea • Eukaryotic Microorganisms: The Protists, Fungi, and Helminths • The Viruses and Virus-Like Agents • Part 5: Interactions and Impact of Microorganisms with Humans • Infection and Disease • Resistance and the Immune System: Introduction and Innate Immunity • Resistance and the Immune System: Adaptive Immunity • Immunity and Serology • Immune Disorders and AIDS • Part 6: Infectious Diseases of Humans • Infectious Diseases Affecting the Skin and Eyes • Infectious Diseases Affecting the Respiratory System • Infectious Diseases Affecting the Digestive System • Infectious Diseases Affecting the Nervous System • Cardiovascular, Lymphatic, and Systemic Infectious Diseases • Infectious Diseases Affecting the Urinary and Reproductive Systems • Applied and Industrial Microbiology (Available online only) • Environmental Microbiology (Available online only)

ISBN: 9781284057096 • HB • 984pp • 2016 • \$95.00



Fundamentals of Microbiology, 11/e

Jeffrey C. Pommerville

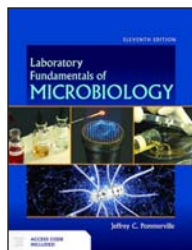
Fundamentals of Microbiology is a true learning solution.

Jeff Pommerville invites you

to discover microbiology as no other author can, with his relatable examples and smooth writing style.

Contents: Part 1: Foundations of Microbiology • Microbiology: Then & Now • The Chemical Building Blocks of Life • Concepts & Tools for Studying Microorganisms • Structure & Organization of Prokaryotic Cells • Microbial Growth & Nutrition • Microbial Metabolism • Part 2: The Genetics of Microorganisms • Microbial Genetics • Gene Transfer, Genetic Engineering, & Genomics • Part 3: The Control of Microorganisms • Control of Microorganisms: Physical & Chemical Methods • Antimicrobial Drugs & Superbugs • Part 4: Bacterial Diseases of Humans • Airborne Bacterial Diseases • Foodborne & Waterborne Bacterial Diseases • Soilborne & Arthropodborne Bacterial Diseases • Sexually Transmitted & Contact Transmitted Bacterial Diseases • Part 5: Viruses & Eukaryotic Microorganisms • The Viruses & Virus-like Agents • Viral Infection of the Respiratory Tract & Skin • Viral Infections of the Blood, Lymphatic, Gastrointestinal, & Nervous Systems • Eukaryotic Microorganisms: The Fungi • Eukaryotic Microorganisms: The Parasites • Part 6: Interactions & Impact of Microorganisms with Humans • The Host-Microbe Relationship & Epidemiology • Resistance & the Immune System: Innate Immunity • Resistance & the Immune System: Adaptive Immunity • Immunity & Serology • Immune Disorders & AIDS • Part 7: Environmental & Applied Microbiology • Applied & Industrial Microbiology of Foods (Online Only) • Environmental Microbiology (Online Only) • Appendix A: Metric Measurement & Temperature Conversion Chart • Appendix B: CDC Summary of Notifiable Diseases in the United States • Appendix C: Pronouncing Organism Names • Appendix D: Answers to End of Chapter Questions

ISBN: 9781284100952 • HB • 944pp • 2018 • \$85.00



Laboratory Fundamentals of Microbiology, 11/e

Jeffrey C. Pommerville

The completely modernized *Eleventh Edition* represents

a lab manual revolution built for today's learners, focusing on the student's experience in the lab. Access to over 100 minutes of 34 instructor-chosen, high-quality videos of actual students performing the most common lab skills, procedures, and techniques provides a seamless experience for the user. Within the manual, Sections and Exercises open with a list of relevant videos, and icons identify where students should refer to them to best prepare for each exercise. This encourages students to read, see, do, and connect with the material.

In addition to the integration of videos, other significant updates to the *Eleventh Edition* include the new, full-colour, easy-to-navigate interior design, with images from the videos found throughout the manual. Labs have been expanded and reorganized into new sections, such as "Laboratory Safety," "Population Growth" and "Immunology." The all-new Laboratory Safety section emphasizes a "culture of safety" approach to the microbiology lab. *Laboratory Fundamentals of Microbiology, Eleventh Edition* is the perfect companion to any modern microbiology course.

Contents: Part I: Laboratory Safety • Part II: Laboratory Techniques and Skills • Part III: Microscopy • Part IV: Bacterial Staining Techniques • Part V: Viruses and Eukaryotic Microorganisms • Part VI: Control of Microorganisms • Part VII: Measuring Population Growth • Part VIII: Medical Microbiology • Part IX: Identification of a Bacterial Unknown • Part X: Bacterial Genetics • Part XI: Immunology • Part XII: Public Health and Environmental Microbiology

ISBN: 9781284100976 • PB • 572pp • 2018 • \$70.00



Encounters in Microbiology, 2/e

Volume 1

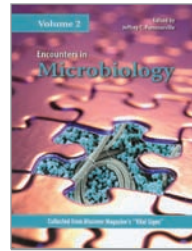
Jeffrey Pommerville

The book engages readers with 15 exciting medical mysteries pulled from *Discover Magazine's*

"Vital Signs". In each account emergency room physicians are in a race against time to diagnose the life-threatening microbial, diseases facing their patients. These medical detectives need all of their experience, intuition, and a few critical observations to identify the puzzling illnesses. With new *Questions to Consider* sections, *Encounters in Microbiology* is a must have for students or anyone interested in the exciting world of microbiology

Contents: Fever without a Cause • Firestorm • Blindsided by Tetanus • A String of Pearls • A Deadly Specter • Blackwater Fever • The Baby Who Stopped Eating • Distant Echoes • Brave, Braver, Bravest • A Lethal Scratch • Mysterious Fevers • Triumph by Treachery • Intruder in the Heart • A Star of Hope • An Independent Diagnosis

ISBN: 9780763757984 • PB • 120pp • 2009 • \$33.00



Encounters in Microbiology

Volume 2

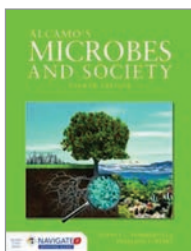
Jeffrey Pommerville

The book includes 16 new medical mysteries pulled from *Discover Magazine's*

"Vital Signs". Chosen and introduced by renowned author and educator Jeffrey Pommerville, each gripping account follows emergency room physicians and specialists on their race to uncover and treat the life-threatening microbial diseases facing their patients. These medical detectives need all of their experience, intuition, and a few critical observations to identify the puzzling illnesses.

Contents: The Steps Used When Diagnosing and Treating a Patient • A Woman's Terrible Stomach Pain Turns Deadly • Bad Fever • Is That Lump Malignant? • Microbes That Maim • Mystery Rash • Why Can't He Walk? • Bull's-Eye • Can She Survive the Cure? • Gut Attack! • A Killer Raves On • Why are His Eyes Crossed? • The Sleeping Giant • Who's That? • Just an Upset Stomach? • Bad Blood • A Task in the Yard Turns Lethal

ISBN: 9780763757991 • PB • 92pp • 2009 • \$33.00



Alcamo's Microbes and Society, 4/e

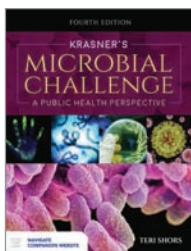
Jeffrey C. Pommerville

Contents: Part 1: The Microbial World • The Microbial World: Surprising and Awesome • Microbes in Perspective: Of Collectors,

Classifiers, and Microscopists • Molecules of the Cell: The Building Blocks of Life • The DNA Story: Chromosomes, Genes, and Genomics • The Prokaryotic World: The Bacteria and Archaea Domains • Viruses: At the Threshold of Life • The Protists: A Microbial Grab Bag • Fungi: Yeasts, Molds, and Mushrooms • Growth and Metabolism:

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ISBN: 9781284023473 • PB • 474pp • 2016 • \$81.00



Krasner's Microbial Challenge, 4/e

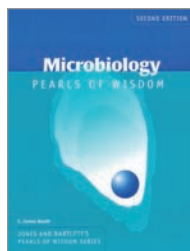
A Public Health Perspective

Teri Shors

The *Fourth Edition of Krasner's Microbial Challenge* addresses the topic of microbes as agents of infectious disease which are a major public health concern. It focuses on human-microbe interactions and considers bacterial, viral, prion, protozoan, fungal and helminthic (worm) diseases.

A chapter on beneficial aspects of microbes makes it clear that not all microbes are disease producers and that microbes are necessary for the sustenance of life on Earth. The response of the immune system, concepts of epidemiology, and measures of control from the individual to the international level to thwart potentially life-threatening epidemics are described.

Contents: Part 1: Discovery of Microbes and the History of Public Health • Pre-Germ Theory, Microbiology, and Medicine • Post-Germ Theory, Microbiology, and Medicine • Sanitation, Clean Water, and Food Safety • Part 2: The Germ Challenge • Identifying the Challenge • The Microbial World • Beneficial Aspects of Microbes: The Other Side of the Coin • Bacteria • Viruses and Prions • Bacterial Genetics • Part 3: Microbial Disease • Concepts of Microbial Disease • Epidemiology and Cycle of Microbial Disease • Bacterial Diseases • Viral and Prion Diseases • Protozoan, Helminthic, and Fungal Diseases • Part 4: Meeting the Challenge • The Immune Response • Control of Microbial Diseases • Part 5: Current Challenges • Biological Weapons, Innovations, and Technology • Partnerships in the Control of Infectious Diseases and Unfinished Agenda



Microbiology, 2/e

Pearls of Wisdom

S. James Booth

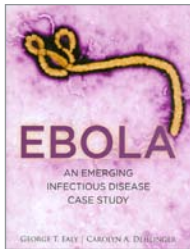
Updated throughout to keep pace with the rapidly advancing field of microbiology, the *Second Edition of Microbiology: Pearls of Wisdom* is the perfect tool for medical students preparing for the MCAT, VCAT, DCAT, USMLE, as well as for undergraduate students taking a microbiology course.

With a rapid-fire question and answer format, this essential review of microbiology principles is sure to improve performance on microbiology written and practical examinations by allowing students to immediately score their practice exam and quickly see the correct answers.

- Questions focus on those areas that are most likely to appear on examinations
- Key concepts are introduced in more than one question and answer, intentionally worded differently to help those with alternative learning styles
- Additional material is often attached to answers in various forms, including mnemonics, visual imagery, repetition, and humor, to help aid in retention of concepts

Contents: Preface • Dedication • Basic Bacteriology • Genetics • Antimicrobial Agents • General Medical Microbiology • Gram-Positive Cocci • Gram-Negative Cocci • Gram-Positive and Acid-Fast Bacilli • Gram-Negative Bacilli • Anaerobes • Spirochetes • Atypical Pathogenic Bacteria: *Mycoplasma*, *Rickettsia*, *Ehrlichia*, *Anaplasma*, *Chlamydia*, and *Chlamydomphila* • Virology • Mycology • Parasitology • Random Pearls

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Ebola

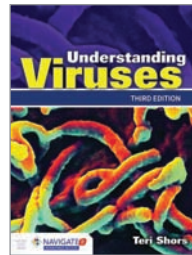
An Emerging Infectious Disease Case Study

George T. Ealy & Carolyn A. Dehlinger

This book provides a firm foundation for academic discussions within microbiology, nursing, health science, and public health programs. Informative and unique, it presents Ebola as a case example that serves as the backbone for a wider discussion about infectious diseases. The book presents the differing responses from international aid agencies, such as the Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO) in identifying and containing the recent outbreak. *Ebola: An Emerging Infectious Disease Case Study* will captivate interest and encourage readers to think broadly and critically about emerging infectious diseases in the modern age.

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Understanding Viruses, 3/e

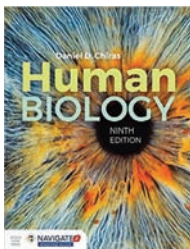
Teri Shors

Understanding Viruses continues to set the standard for the fundamentals of virology. This classic textbook combines

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Human Biology, 9/e

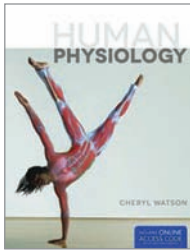
Daniel D. Chiras

It offers an introduction to the structure, function, health, and homeostasis of the human body. It explores life from a variety of levels and perspectives, including cellular/molecular, by body system, through disease, and within the environment. The *Ninth Edition* features a new chapter dedicated to the integumentary system as well as new sections covering evolution, injuries

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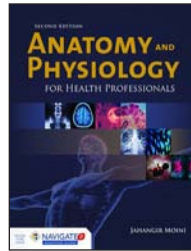
Human Physiology
Cheryl Watson

Human Physiology is a comprehensive text designed to provide students with in-depth knowledge and appreciation of the fundamentals of human physiology. Each

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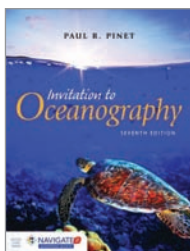
Anatomy and Physiology for Health Professionals, 2/e
Jahangir Moyni

Anatomy and Physiology for Health Professionals, Second Edition provides an

engaging and comprehensive overview of human anatomy and physiology, written specifically with health professions students in mind. This text helps students navigate the subject through an array of features—including *Test Your Understanding* questions that regularly assess comprehension, *Learning Goals* that correlate to concrete *Objectives*, and a large assortment of end-of-chapter questions—that reinforce key concepts while promoting mastery of the material.

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Invitation to Oceanography, 7/e

Paul R. Pinet

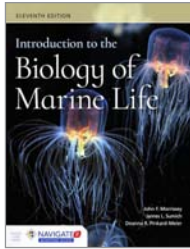
Invitation to Oceanography, Seventh Edition content spans the four major divisions of ocean

science—geology, chemistry, physics, and biology. The *Seventh Edition* has been updated with sophisticated and cutting-edge graphics and photos throughout, and includes trending content on climate change, Superstorm/Hurricane Sandy,

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Introduction to the Biology of Marine Life, 11/e

Morrissey, Sumich & Pinkard-Meier

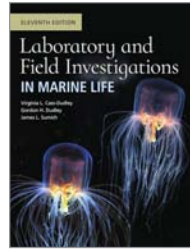
What is marine biology and why is it important?
The Eleventh Edition of

Introduction to the Biology of Marine Life answers these questions and inspires students to appreciate marine life and ocean ecosystems. Latest research and case studies encourage students to apply their knowledge to current and real-life situations.

Features: NEW chapter, *Polar Seas*, provides an introduction to the polar environment followed by coverage of various polar organisms, how they are affected by their environment, and the effects of climate change • NEW chapter, *Physical and Chemical Oceanography*, covers various basic oceanographic topics such as tides, waves, and circulation to help students better understand how these affect marine life • NEW *Did You Know?* boxes highlight a fascinating aspect of marine life, offering students information on contemporary events and discoveries • *Research in Progress* feature offers the latest statistics and modern examples of the current work and findings of marine biologists • NEW *Case Studies* in every chapter highlight various marine organisms and encourage knowledge application • Thoroughly updated with the latest information and research

Contents: The Ocean as a Habitat • Physical and Chemical Oceanography • Patterns of Associations • Marine Microbes • Marine Macroalgae and Plants • Microbial Heterotrophs and Invertebrates • Marine Vertebrates I: Fishes and Reptiles • Marine Vertebrates II: Seabirds and Marine Mammals • Estuaries • Coastal Seas • The Coral Reef Ecosystem • The Open Sea • The Deep-Sea Floor • Polar Seas • Harvesting Living Marine Resources

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Laboratory and Field Investigations in Marine Life, 11/e

V. Cass-Dudley, Sumich & G. Dudley

Laboratory and Field

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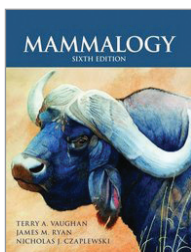
The laboratory and field activities are designed to encourage students to develop their own powers of critical observation and analysis.

They will benefit from a thorough examination of topics such as the physical and chemical properties of seawater, marine microbes, algae, and a wide variety of invertebrate and vertebrate animals through observation and critical thinking activities.

Laboratory and Field Investigations in Marine Life, Eleventh Edition is an ideal resource to accompany *Introduction to the Biology of Marine Life, Eleventh Edition*.

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Mammalogy, 6/e

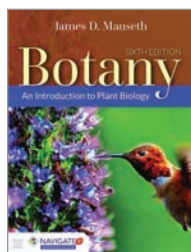
Vaughan, Ryan & Czaplewski

The book explains and clarifies the subject as a unified whole. Thorough yet accessible with a wealth of pedagogical elements to aid

in comprehension, the extensively updated *Sixth Edition of Mammalogy* is an essential resource for upper-level undergraduate and graduate students studying this fascinating field.

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Botany, 6/e

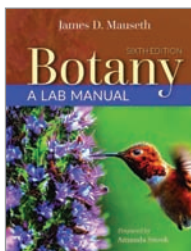
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Botany, 6/e

A Lab Manual
James D. Mauseth

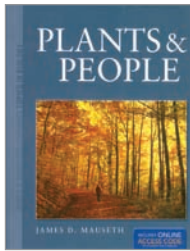
Botany: A Lab Manual, Sixth Edition is the perfect companion to any botany course. Packed with hands-on activities, it engages

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Plants & People

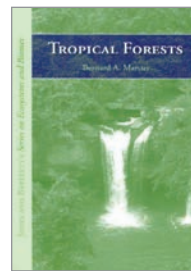
James D. Mauseth

Plants play a role in the environment, in food, beverage, and drug production, as well as human health. *Plants and People* outlines the practical, economical,

and environmental aspects of plants' interaction with humans and the earth. Mauseth provides comprehensive coverage of plants in the environment – global warming, deforestation, biogeography – as well as the role plants play in food, fiber, and medicine.

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Tropical Forests

Bernard A. Marcus

Tropical Forests is an ideal text or supplement for introductory biology, ecology & environmental science courses. It provides students with an accurate, easy to read, & easy to

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Contents: Introduction • The Tropical Water Cycle • Forest Soils and Nutrient Cycles • Wet Tropical Forests • Plants of the Wet Forests • Vertebrate Animals I: Mammals • Vertebrate Animals II: Birds, Reptiles, Amphibians, and Fish • Arthropods • Biotic Interrelationships • Rainforest Resources: Foods, Medicines, and More • Rainforest Destruction • Rainforest Conservation and the Importance of Ecotourism • The Role of Tropical Rainforests in Global Climate • Tropical Dry Forests • What Comes Next? • Glossary • Index • Photo Acknowledgments

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